

AIR CYLINDER CONTROLLER

Abstract of the Disclosure

An air flow regulator includes a damper (14) and an air cylinder (20) operatively connected with the damper (14) to adjust a damper setting. A pressure sensor (52) indicates a pneumatic pressure in the air cylinder (20). An air pressure regulator (42) is operatively connected with the air cylinder (20) to pressurize and exhaust the air cylinder (20) responsive to an electrical input (70). The air pressure regulator (42) includes a calibration table (64) associating steady state air cylinder pressure values with regulator shut-off pressure values. Responsive to the electrical input (70) updating a steady-state air cylinder pressure value, the air pressure regulator (42) pressurizes or exhausts the air cylinder (20) until the pressure sensor (52) indicates a pressure corresponding to a regulator shut-off pressure value associated in the calibration table (64) with the updated steady-state air cylinder pressure value, whereupon the air pressure regulator (42) ceases the pressurizing or exhausting.